

GEOGRAPHIC REDUNDANCY FOR CALL SERVERS IN A CELLULAR SYSTEM BASED
ON A BEARER-INDEPENDENT CORE NETWORK

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ABSTRACT OF THE DISCLOSURE

In a bearer-independent core network, the switching and transport of the bearer streams is separated from the processing of call sessions that control the bearer streams. The switching and transport of the bearer streams is executed by media gateways and packet switches in the switching and transport layer of the network. The processing of calls sessions that control the bearer streams is executed by call servers in the call control layer of the network. The switching and transport layer of the network may be implemented using ATM or IP technology. In order to redirect the signaling links to a backup call server, a signaling gateway is used. Each media gateway includes a signaling gateway function. The signaling gateways redirect the signaling links by encapsulating each signaling message in a new packet in one embodiment.